

No 13

56 11

56 54

507

Dec 10 West Hydrographic # 4906

Dredge } No. 5611 Date, Nov. 19, 1909

Sdg. Mch. Reel Shot } Lead } lbs.

Turns Cor'n Depth fms.

Sdg. Cup Amt. Bot'm Sample

Character of Bottom

Thermom. { Make Cor'n { Instr. No. Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { 84° Time 7:12 P } Air { 83° 84° Time 7:35 P } 83°

Density: Surf. fms.

Wind: Direction East Force 2

Baromet. 29.82 Amt. of Clouds 8 State of Sea S

Weather bcm

Direction and Force of Current { Surface Bottom

Tide

General Locality Tonkin Gulf S. of Togian Buta I (E) S 43 W - Tanpa I (mid)

Position 0 40 30 S - 121 50 00 E.

Chart used: No. 139942 Ed'n

Drift: Direction Distance

Depth of Haul Surface

Apparatus and Rig used 10' Inter.; double cone, towing to 20 fms. wire.

Time towing - h. 20 m.

Remarks: No sdg. taken.

Deck Officer Mr. Rohan Recorder J. M. 7 - 11-1023

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. Down.	Up.	M.		M. Down.	Up.	M.
			0	7 12 00	7 34 10	
			20 100	7 13 30	7 32 30	
			200			
			300			
			400			
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

103

N 70 W

Buki d (E)

S 43 W

6.4 m

Dredge } No. 5612 Date, Nov 20, 1907

Hydrog. } Sdg. Mch. Lucas Reel Lucas Shot } Lead } lbs.

Turns 700 Cor'n — Depth 750 fms.

Sdg. Cup Sigbee Amt. Bot'm Sample —

Character of Bottom —

Thermom. { Make 37 Cor'n { Instr. No. 6424 Stem.

Bottom Reading — Cor'd Temp. —

Temp. Surf. { 83° Time 6:45 } Air { 80° 83° Time 7:45 }

Density: Surf. — fms. —

Wind: Direction Various Force 0-1

Baromet. 29.85 Amt. of Clouds 7 State of Sea 8

Weather bgy ptl

Direction and Force of Current { Surface Bottom

Tide —

General Locality Tomini Gulf. S of Tagaen Id. Burka Id. (E) S 3 E Cape Api, nw,

Position Lat 00° 38' 00" S. Long 121° 45' 40"

Chart used: No. B4942 A Ed'n

Drift: Direction S. 5 E Distance 1.5

Depth of Haul Bottom

Apparatus and Rig used 12' Agassiz, 2 wing weights, 1 Tail weight, 2 glass floats

Time towing h. 2 m.

Remarks: Thermometer, 70 fms wire, strap fine + lead, and sounding cup lost

Deck Officer Mr. Robinson Recorder C. E. Long Mr. Johnson H. W. Cress

SOUNDING WIRE.

FMS.

DREDGING CABLE.

M. Down. Up. M.

M. Down. Up. M.

5	57	20	6	26	50	0	6	35	10	8	29	30
	58	10		25	20	100		39	35		24	45
	59	00		24	30	200		43	30		21	40
	59	50		23	40	300		46	50		18	30
6	00	45		23	05	400		51	10		15	00
	01	40		22	20	500		55	15		10	50
	02	40		21	40	600		58	50		06	35
	03	40		19	05	700	7	02	10	8	02	25
x 6	04	15	6	20	10	800		05	40		58	25
						900		09	35		54	40
						1000		13	50		51	15
						1100		17	40		47	10
						1200	7	21	30	7	43	30
						1300						
						1400						
						1500						
						1600						
						1700						
						1800						
						1900						
						2000						
						2100						
						2200						
						2300						
						2400						
S 44 W.						2500						
x						2600						
						2700						
						2800						
						2900						
						3000						
						3100						
						3200						
						3300						
Buka I (E)						3400						
						3500						
						3600						
						3700						
						3800						
						3900						
						4000						
						4100						
						4200						
						4300						
						4400						
						4500						
						4600						
						4700						
						4800						
						4900						

S 3 E

7. m

Dredge } No. 5673 Date, Nov. 20, 19
Hydrog. }
Sdg. Mch. Lucas Reel Shot 35 lbs.
Lead }
Turns Cor'n Depth fms.
Sdg. Cup Amt. Bot'm Sample
Character of Bottom
Thermom. { Make Cor'n { Instr.
 { No. { Stem.
Bottom Reading Cor'd Temp.
Temp. Surf. { Time } Air {
 { Time }
Density: Surf. fms.
Wind: Direction Force
Baromet. Amt. of Clouds State of Sea
Weather
Direction and Force of Current { Surface
 { Bottom
Tide
General Locality
Position
Chart used: No. Ed'n
Drift: Direction Distance
Depth of Haul
Apparatus and Rig used
Time towing h. m.
Remarks:
Deck Officer Recorder

Dredge } No. 5613 Date, Nov. 20, 1949
Hydrog.

Sdg. Mch. Lucas Reel Shot } 35 lbs.
Lead }

Turns 752 Cor'n Depth 752 fms.

Sdg. Cup Lucas Amt. Bot'm Sample 403.

Character of Bottom Gy M

Thermom. { Make Cor'n { Instr.
No. Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { 84 Time 10:27 A } Air { 84°
85 Time 11:33 A } 86°

Density: Surf. fms.

Wind: Direction Variable Force 0-1

Baromet. 29.87 Amt. of Clouds 7 State of Sea S.

Weather B.c

Direction and Force of Current { Surface
Bottom

Tide

General Locality Tonini Gulf, S of Togin Id.
Buks I (E) S28E - Cape Apo (NW) S50W.

Position 0°42' S - 121°44' E.

Chart used: No. 942 BFA Ed'n -

Drift: Direction N20E Distance 1.8 m.

Depth of Haul Bottom

Apparatus and Rig used 12' Agassiz, 2 wing
weights, 1 tail weight, 2 glass
floats

Time towing 1 19¹⁰ m.

Remarks:

Deck Officer Mr. Johnson Recorder H. W. Crider

Deck Officer / 1st Lt. / 1st Lt. Recorder / 1st Lt. / 1st Lt.

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. Down.	Up.	M.		M. Down.	Up.	M.
			0			
			100			
			200			
			300			
			400			
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
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			2000			
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			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

Dredge } No. 4 Date, July 2, 1900

Sdg. Mch. Reel Shot/Lead lbs.

Turns 1100 Cor'n Depth 1100 fms.

Sdg. Cup Amt. Bot'm Sample

Character of Bottom

Thermom. { Make Cor'n { Instr. No. Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { Time 7:00 } Air { Time

Density: Surf. fms.

Wind: Direction Force

Baromet. Amt. of Clouds State of Sea

Weather

Direction and Force of Current { Surface Bottom

Tide

General Locality Malacca Passage

Position

Chart used: No. Ed'n

Drift: Direction N.W. ? Distance 1.5 ?

Depth of Haul Bottom

Apparatus and Rig used 12' Agassiz

Time towing h. m.

Remarks:

Deck Officer Recorder

SOUNDING WIRE.

M. Down. Up. M.

FMS.

DREDGING CABLE.

M. Down. Up. M.

6	29	00	6	59	30	0	7	04	30	56	30
	30	10		57	30	100		09	10	53	25
	31	15		55	50	200		13	00	50	30
	33	20		54	00	300		16	30	47	50
	34	26		53	20	400		19	50	45	10
						500					
	37	10		51	00	600		26	00	39	50
	38	25		49	50	700		27	10	37	00
	39	40		48	40	800		32	30	34	00
	41	10		47	55	900		36	20	30	50
						1000					
6	44	05	6	45	30	1100		44	05	25	10
						1200					
						1300					
						1400					
						1500					
						1600					
						1700					
						1800					
						1900					
						2000					
						2100					
						2200					
						2300					
						2400					
						2500					
						2600					
						2700					
						2800					
						2900					
						3000					
						3100					
						3200					
						3300					
						3400					
						3500					
						3600					
						3700		21	19	5	
						3800					
						3900		30	5		
						4000					
						4100					
						4200					
						4300					
						4400					
						4500					
						4600					
						4700					
						4800					
						4900					

Deck Officer _____ Recorder _____

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. Down.	Up.	M.		M. Down.	Up.	M.
1			0	1	38 45	3 40 20
			100		43 20	37 10
			200		47 20	34 20
			300		50 50	31 30
	23 15		400		54 30	28 35
16 10	22 25		500		58 25	25 40
			600			
			700			
			800			
15 00	19 30		900		14 00	14 00
16 10	18 40		1000		18 00	11 25
	20		1100			
			1200		26 00	05 55
			1800		30 25	3 02 55
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

Dredge } No. _____ Date, _____, 19...

Sdg. Mch. _____ Reel _____ Shot } _____ lbs.
Lead }

Turns _____ Cor'n _____ Depth _____ fms.

Sdg. Cup _____ Amt. Bot'm Sample _____

Character of Bottom _____

Thermom. { Make _____ Cor'n { Instr. _____
 { No. _____ { Stem. _____

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { _____ Time _____ } Air { _____
 { _____ Time _____ } { _____

Density: Surf. _____ fms. _____

Wind: Direction Variable Force 0-1

Baromet. _____ Amt. of Clouds 6 State of Sea _____

Weather _____

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____

General Locality Indian T.

Position _____

Chart used: No. 744 Ed'n _____

Drift: Direction _____ Distance _____

Depth of Haul 20 to 30 fms.

Apparatus and Rig used _____

Time towing _____ h. 15 m.

Remarks: _____

Deck Officer _____ Recorder _____

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
<i>P</i> M. DOWN.	UP.	<i>P</i> M.		<i>P</i> M. DOWN.	UP.	<i>P</i> M.
			0	6	34	33
			100	6	34	33
			200			
			300			
			400			
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

Dredge } No. 5617 Date, , 19
Hydrog. }
Sdg. Mch. Lucas Reel Shot Lead 34 lbs.
Turns Cor'n Depth 131 fms.
Sdg. Cup Lucas Amt. Bot'm Sample None
Character of Bottom

Thermom. { Make Cor'n { Instr.
No. Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { 84° Time 10:50 A } Air { 84°
Time

Density: Surf. fms.

Wind: Direction Variable Force 1-0

Baromet. 29.85 Amt. of Clouds 2.0 State of Sea

Weather

Direction and Force of Current { Surface
Bottom

Tide

General Locality

Position

Chart used: No. B. A. 944 A Ed'n 0

Drift: Direction N. 71 W Distance 1.0

Depth of Haul Bottom

Apparatus and Rig used 12' Agassiz 2: wing
tail weight 2 glass

Time towing h. m.

Remarks:

SOUNDING WIRE.

FMS.

A. M. Down. Up. M.

10 40 40 10 45 251

45

44 15

10 42 25 10 45 50 15 200

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

4100

4200

4300

4400

4500

4600

4700

4800

4900

DREDGING CABLE.

A. M. Down. Up. M.

10 40 30 10 15

54 30

11 00 00 11 00

11 — 1025

SOUNDING WIRE.

FMS.

DREDGING CABLE.

M. Down. Up. M.

M. Down. Up. M.

11 35 40 11 41 50
 36 20 39 20
 11 37 10 11 37 30

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

4100

4200

4300

4400

4500

4600

4700

4800

4900

Dredge } No. 567 Date, Jan 1, 1907

Sdg. Mch. Lucas Reel Shot/Lead lbs.

Turns 1 Cor'n Depth 1 fms.

Sdg. Cup Amt. Bot'm Sample

Character of Bottom

Thermom. { Make No. Cor'n { Instr. Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { 84° Time 2:45 } Air { 82°
Time 3:00 }

Density: Surf. fms.

Wind: Direction Force

Baromet. 29.78 Amt. of Clouds State of Sea

Weather

Direction and Force of Current { Surface Bottom

Tide

General Locality

Position

Chart used: No. Ed'n

Drift: Direction Distance

Depth of Haul

Apparatus and Rig used

Time towing 20 m.

Remarks:

Deck Officer Recorder

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. Down.	Up.	M.		M. Down.	Up.	M.
02	17	00	0	2	16	23 30
03	16	50	100			35
04	15	50	200			30
06	10	00	300			30
07	08	00	400			25
08	05	00	500			08 30
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

Dredge } No. 111 Date, Dec 22, 1907

Sdg. Mch. Lucas Reel 1 Shot 60 lbs.

Turns 100 Cor'n 1 Depth 100 fms.

Sdg. Cup Lucas Amt. Bot'm Sample 100

Character of Bottom fine sand

Thermom. { Make Lucas Cor'n { Instr. Lucas
No. 1 Stem. Lucas

Bottom Reading 100 Cor'd Temp. 83.0

Temp. Surf. { 84.0 Time 4 P. } Air { 83.0
Time 4:00 } 77.0

Density: Surf. 1.024 fms. 100

Wind: Direction West Force 3

Baromet. 30.1 Amt. of Clouds 100 State of Sea 1

Weather cloudy

Direction and Force of Current { Surface 1.8
Bottom 1.8

Tide low

General Locality off Cape Cod

Position 41° 13' N. 71° 35' W.

Chart used: No. 111 Ed'n 1

Drift: Direction 1.8 Distance 1.8

Depth of Haul 100

Apparatus and Rig used Lucas

Time towing h. 2.4 m.

Remarks:

Deck Officer Wm. H. Hays Recorder Wm. H. Hays

SOUNDING WIRE.

FMS.

M. Down. Up. M.

DREDGING CABLE.

M. Down. Up. M.

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

4100

4200

4300

4400

4500

4600

4700

4800

4900

3 42 10 15 20

N 2 30 5-3 35-

4 0 1 00 4 8 20

0 4 30 4 8 40

1 0 00 4 2 60

4 0 1 00 4 8 20

0 4 30 4 8 40

1 0 00 4 2 60

4 0 1 00 4 8 20

0 4 30 4 8 40

1 0 00 4 2 60

4 0 1 00 4 8 20

0 4 30 4 8 40

1 0 00 4 2 60

4 0 1 00 4 8 20

0 4 30 4 8 40

1 0 00 4 2 60

4 0 1 00 4 8 20

0 4 30 4 8 40

1 0 00 4 2 60

4 0 1 00 4 8 20

0 4 30 4 8 40

1 0 00 4 2 60

4 0 1 00 4 8 20

0 4 30 4 8 40

1 0 00 4 2 60

4 0 1 00 4 8 20

0 4 30 4 8 40

1 0 00 4 2 60

4 0 1 00 4 8 20

0 4 30 4 8 40

1 0 00 4 2 60

4 0 1 00 4 8 20

0 4 30 4 8 40

1 0 00 4 2 60

4 0 1 00 4 8 20

0 4 30 4 8 40

1 0 00 4 2 60

4 0 1 00 4 8 20

0 4 30 4 8 40

1 0 00 4 2 60

4 0 1 00 4 8 20

0 4 30 4 8 40

1 0 00 4 2 60

Dredge } No. _____ Date, _____, 19____
Hydrog. }
Sdg. Mch. _____ Reel _____ Shot } _____ lbs.
Lead }
Turns 3 _____ Cor'n _____ Depth _____ fms.
Sdg. Cup _____ Amt. Bot'm Sample 2 53-
Character of Bottom Gr.

Thermom. { Make _____ Cor'n { Instr. _____
 { No. _____ { Stem. _____

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { 82° Time 6:00 A } Air { 80°
 { 83 Time 7:00 A } { 79 1/2

Density: Surf. _____ fms. _____

Wind: Direction N. W. Force 3-2

Baromet. 9.85 Amt. of Clouds 10 State of Sea 0

Weather _____

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____

General Locality _____

Position _____

Chart used: No. _____ Ed'n _____

Drift: Direction _____ Distance 1.0

Depth of Haul Bottom.

Apparatus and Rig used 12' log-screw trawl
 12' log-screw trawl

Time towing h. 20 m.

Remarks: _____

SOUNDING WIRE.

FMS.

DREDGING CABLE.

M. Down.	Up.	M.		M. Down.	Up.	M.
5 44 00	5 55 00		0	6 03 30	7 01 30	
45 00	53 20		100	07 30	58 2	
			200			
			300	13 40	51 50	
			400	19 30	48 25	
			500	6 24 00	6 44 30	
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800	5 57 45		
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

✓

Dredge } No. 522 Date, May 29, 1904
Hydrog. }
Sdg. Mch. _____ Reel _____ Shot/Lead 60 lbs.
Turns _____ Cor'n _____ Depth 235 fms.
Sdg. Cup Lucas Amt. Bot'm Sample None
Character of Bottom Grd. *

Thermom. { Make _____ Cor'n { Instr. _____
 { No. _____ { Stem. _____

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { _____ Time _____ } Air { 81
 { _____ Time _____ } { _____

Density: Surf. _____ fms. _____

Wind: Direction NNW Force 3-4

Baromet. 30.0 Amt. of Clouds _____ State of Sea _____

Weather _____

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____

at depth of 200 fms. in the
Atlantic Ocean, N. of Cape Hatteras, N. C.
General Locality _____

24° 15' N. 75° 15' W.
Position _____

Chart used: No. 982 Ed'n _____

Drift: Direction S. 30° E. Distance 1.2 mi.

Depth of Haul Bottom

Apparatus and Rig used 12' beam trawl
2' mesh, 1/2" mesh, 1/4" mesh

Time towing _____ h. 20 m.

Remarks: * at 100 fms. bottom
2' mesh, 1/2" mesh, 1/4" mesh

SOUNDING WIRE.

FMS.

DREDGING CABLE.

M. Down. Up. A. M.

M. Down. Up. M.

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

4100

4200

4300

4400

4500

4600

4700

4800

4900

Dredge No. _____ Date, _____, 19__

Sdg. Mch. _____ Reel _____ Shot / Lead _____ lbs.

Turns 274 Cor'n Depth 273 fms.

Sdg. Cup Lucas Amt. Bot'm Sample Lucas

Character of Bottom

Thermom. { Make
 { No.

Cor'n { Instr.
 { Stem.

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { 83° Time 7:45 AM } Air { 80°
Time 7:24 AM } 80°

Density: Surf. _____ fms. _____

Wind: Direction *C. 10-20* Force *1-2*

<i>Baromet.</i>	<i>Amt. of Clouds</i>	<i>State of Sea</i>
-----------------	---------------------------	-------------------------

Weather fine

Direction and Force of Current.	{	Surface
		Bottom		

General Locality /

Position

Chart used: No. _____ Ed'n _____

Drift: Direction S. 10 E. Distance 1.

Depth of Haul Bottom.

Apparatus and Kit used

Time towing h. m.

Remarks:

Deck Officer _____ Deck Recorder _____

11-1022

SOUNDING WIRE.		FMS.	DREDGING CABLE.	
<i>Q.</i> M. Down.	Up. <i>Q.</i> M.		<i>Q.</i> M. Down.	Up. <i>Q.</i> M.
7 32 10	7 37 12	0	7 24 00	7 25 00
		100		
		200		
7 35 35	7 37 42	275-300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		
		2500		
		2600		
		2700		
		2800		
		2900		
		3000		
		3100		
		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		
		4100		
		4200		
		4300		
		4400		
		4500		
		4600		
		4700		
		4800		
		4900		

Dredge } No. 5623 Date, , 19 /
Hydrog. }
Sdg. Mch. Lucas Reel 2 Shot } 60 lbs.
Lead }
Turns 272 Cor'n Depth 272 fms.
Sdg. Cup Lucas Amt. Bot'm Sample 3.5
Character of Bottom fine S. Mud.

Thermom. { Make Cor'n { Instr.
No. Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { 83° Time 9:25 A }
13° Time 9:43 A } Air

Density: Surf. fms.

Wind: Direction Force 1

Baromet. 29.87 Amt. of Clouds 9 State of Sea

Weather haze

Direction and Force { Surface
of Current. Bottom

Tide

General Locality

Position 11.46 W.
14.0 11.30 N. 125°

Chart used: No. Ed'n

Drift: Direction Distance 1

Depth of Haul

Apparatus and Rig used

Time towing h. 20 m.

Remarks:

Deck Officer Recorder.

SOUNDING WIRE.

FMS.

DREDGING CABLE.

M. Down. Up. M.

M. Down. Up. M.

					0				
54	15		58	40	100		09	25	52 20
55	20		57	50	200		13	50	49 00
8	56	00	8	57	00	272	17	50	46 00
					400		9	22	40 9
					500				42 40
					600				
					700				
					800				
					900				
					1000				
					1100				
					1200				
					1300				
					1400				
					1500				
					1600				
					1700				
					1800				
					1900				
					2000				
					2100				
					2200				
					2300				
					2400				
					2500				
					2600				
					2700				
					2800				
					2900				
					3000				
					3100				
					3200				
					3300				
					3400				
					3500				
					3600				
					3700				
					3800				
					3900				
					4000				
					4100				
					4200				
					4300				
					4400				
					4500				
					4600				
					4700				
					4800				
					4900				

Dredge } No. _____ Date, _____, 19 ____
Hydrog. }

Sdg. Mch. _____ Reel _____ Shot/Lead _____ lbs.

Turns _____ Cor'n _____ Depth _____ fms.

Sdg. Cup _____ Apt. Bot'm Sample _____

Character of Bottom _____

Thermom. { Make _____ Cor'n { Instr. _____
 { No. _____ { Stem. _____

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { Time _____ { Air {
 { Time _____ { {

Density: Surf. _____ fms. _____

Wind: Direction _____ Force _____

Baromet. _____ Amt. of Clouds _____ State of Sea _____

Weather _____

Direction and Force { Surface _____
of Current. { Bottom _____

Tide _____

General Locality _____

Position _____

Chart used: No. _____ Ed'n _____

Drift: Direction _____ Distance _____

Depth of Haul _____

Apparatus and Rig used _____

Time towing _____ h. _____ m.

Remarks: * Shot _____

Deck Officer _____ Recorder _____

SOUNDING WIRE.				FMS.	DREDGING CABLE.		
M. Down.	Up.	M.			M. Down.	Up.	M.
1				0			
10	21	55	10	22 00	32	400	
				200			
				300			
				400			
				500			
				600			
				700			
				800			
				900			
				1000			
				1100			
				1200			
				1300			
				1400			
				1500			
				1600			
				1700			
				1800			
				1900			
				2000			
				2100			
				2200			
				2300			
				2400			
				2500			
				2600			
				2700			
				2800			
				2900			
				3000			
				3100			
				3200			
				3300			
				3400			
				3500			
				3600			
				3700			
				3800			
				3900			
				4000			
				4100			
				4200			
				4300			
				4400			
				4500			
				4600			
				4700			
				4800			
				4900			

Dredge } No. 1 Date, July 1, 1903

Sdg. Mch. Reel Shot/Lead 6 lbs.

Turns Cor'n Depth fms.

Sdg. Cup Amt. Bot'm Sample 2 1/2

Character of Bottom fine S. M. and

Thermom. { Make Cor'n { Instr. No. Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { Time Air {

Density: Surf. fms.

Wind: Direction Variable Force 1

Baromet. 29.86 Amt. of Clouds 9 State of Sea 1

Weather hazy

Direction and Force of Current { Surface Bottom

Tide

General Locality

Position

Chart used: No. Ed'n

Drift: Direction S. 15 E. Distance 1.5 m.

Depth of Haul Bottom

Apparatus and Rig used

Time towing h. m.

Remarks:

Deck Officer Recorder

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
<i>a</i> M. Down.	Up.	M.		<i>G</i> M. Down.	Up.	M.
10 27 25	10 35 30		0	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100		
28 30	34 30		100			
29 40	33 25		200			
			300			
			400			
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

Dredge } No. 100 Date, July 1, 1903
Hydrog. }
Sdg. Mch. Lucas Reel 1 Shot 60 lbs.
Turns 10 Cor'n — Depth 10 fms.
Sdg. Cup — Amt. Bot'm Sample —
Character of Bottom gy. m. fine

Thermom. { Make — Cor'n { Instr. —
 { No. — { Stem. —

Bottom Reading — Cor'd Temp. —

Temp. Surf. { 84.0 Time 2:30 } Air { 82
 { Time 2:30 } { }

Density: Surf. — fms. —

Wind: Direction — Force —

Baromet. 30.1 Amt. of Clouds — State of Sea —

Weather ves

Direction and Force of Current { Surface —
 { Bottom —

Tide —

General Locality Passage

Position 0°07' N - 127°28' E.

Chart used: No. — Ed'n —

Drift: Direction — Distance 1.6

Depth of Haul —

Apparatus and Rig used —

Time towing — h. 21 m.

Remarks: —

Deck Officer — Recorder —

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. Down.	Up.	M.		M. Down.	Up.	M.
1 42 00	1 53 10		0	1 58 35	2 02 20	
			100			
4 00	5 10		200	07 05		
4 20			300			
			400			
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700	13 12		
			3800			
			3900	6 00		
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

Dredge } No. _____ Date, _____, 19____
Hydrog. }
Sdg. Mch. _____ Reel _____ Shot _____ lbs.
Turns _____ Cor'n _____ Depth _____ fms.
Sdg. Cup _____ Amt. Bot'm Sample _____
Character of Bottom _____

Thermom. { Make _____ Cor'n { Instr. _____
 { No. _____ { Stem. _____

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { _____ Time _____ } Air { _____
 { _____ Time _____ } { _____

Density: Surf. _____ fms. _____

Wind: Direction _____ Force _____

Baromet. _____ Amt. of Clouds _____ State of Sea _____

Weather _____

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____

General Locality _____

Position _____

Chart used: No. _____ Ed'n _____

Drift: Direction _____ Distance _____

Depth of Haul _____

Apparatus and Rig used _____

Time towing _____ h. _____ m.

Remarks: _____

Deck Officer _____ Recorder _____
11-1023

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. Down.	Up.	M.		M. Down.	Up.	M.
			0			
07			100			
05		12	200			
03		11	300			
3 09	30	10	400			
		25	500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

Dredge } No. 627 Date, Feb 20, 1900
Hydrog. }
Sdg. Mch. Reel Shot/Lead lbs.
Turns — Cor'n — Depth 22 fms.
Sdg. Cup — Amt. Bot'm Sample —
Character of Bottom M.

Thermom. { Make — Cor'n { Instr. —
 { No. — { Stem. —

Bottom Reading — Cor'd Temp. —

Temp. Surf. { 30 Time 6 p. 24th Air { 83
 { { {
 { { {

Density: Surf. — fms. —

Wind: Direction — Force —

Baromet. — Amt. of Clouds 9-10 State of Sea S.

Weather —

Direction and Force of Current { Surface —
 { Bottom —

Tide —

General Locality —

Position —

Chart used: No. BA 942 a Ed'n —

Drift: Direction — Distance —

Depth of Haul —

Apparatus and Rig used —

Time towing h. m.

Remarks: —

Deck Officer — Recorder —

SOUNDING WIRE.

M. Down. Up. M.

FMS.

DREDGING CABLE.

M. Down. Up. M.

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

4100

4200

4300

4400

4500

4600

4700

4800

4900

6	00	00	5	40	00
6	02	00	5	37	00

55 / 1000
1000

Dredge } No. _____ Date, _____, 19____
Hydrog. }

Sdg. Mch. _____ Reel _____ Shot }
Lead } lbs. _____

Turns 1291 Cor'n _____ Depth 1291 fms. _____

Sdg. Cup Lucas Amt. Bot'm Sample None

Character of Bottom gy. M. (in spec)

Thermom. { Make _____ Cor'n { Instr. _____
No. _____ Stem. _____

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { 84° Time 12:45 P. } Air { 86°
0410 Time _____ } 01

Density: Surf. _____ fms. _____

Wind: Direction _____ Force _____

Baromet. 29.4 Amt. of Clouds 5 State of Sea S

Weather bcy

Direction and Force of Current { Surface _____
Bottom _____

Tide _____

General Locality St. Lawrence (r.) N. 12 mi. N.

Position 0° 28' N. 121° 00' W.

Chart used: No. 942 B. A. Ed'n _____

Drift: Direction S 20 E Distance 2.00

Depth of Haul _____

Apparatus and Rig used _____

Time towing _____ h. _____ m.

Remarks: *

Deck Officer _____ Recorder _____

SOUNDING WIRE.

FMS.

DREDGING CABLE.

M. Down. Up. M.

M. Down. Up. M.

				0					
				100					
08	45	33	10	200		46	45	2	01 15
10	00	32	15	300		50	45		58 20
11	10	31	50	400		54	25		55 10
12	25	30	45	500		57	55		52 15
				600					
15	00	29	00	700		05	30		46 35
				800					
17	35	27	10	900		17	55		48 20
18	40	26	10	1000		16	00		36 50
19	55	25	10	1100		19	15		33 20
				1200					30 00
11 22	00	11 23	00	1300		26	40		26 30
				1400					
				1500		34	05		18 55
				1600		38	10		14 40
				1700					
				1800					
				1900					
				2000					
				2100					
				2200					
				2300					
				2400					
				2500					
				2600					
				2700					
				2800					
				2900					
				3000					
				3100					
				3200					
				3300					
				3400					
				3500					
				3600					
				3700					
				3800					
				3900					
				4000					
				4100					
				4200					
				4300					
				4400					
				4500					
				4600					
				4700					
				4800					
				4900					

Dredge } No. 2-1-2 Date, , 19.
Hydrog. }
Sdg. Mch. Reel Shot } lbs.
Lead }
Turns Cor'n Depth fms.
Sdg. Cup Amt. Bot'm Sample
Character of Bottom 0-1

Thermom. { Make Cor'n { Instr.
No. Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { 53° Time 6:30 } Air { 50°
Time

Density: Surf. fms.

Wind: Direction Variable Force 0-1

Baromet. Amt. of Clouds State of Sea

Weather bc

Direction and Force of Current { Surface
Bottom

Tide

General Locality

Position 2

Chart used: No. 7429 RA Ed'n

Drift: Direction Distance

Depth of Haul bottom

Apparatus and Rig used 12' Agassiz, 2' ring

Time towing h. m.

Remarks:

By Lieut. to Lieut. Broderick

Deck Officer Mc Recorder

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. Down.	Up.	M.		M. Down.	Up.	M.
40	5	10	0	12	5	30
	5	15	100	30	40	55
	5	20	200	34	45	52
			300			
			400	6	45	20
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

Dredge } No. 114 Date, Dec 22nd, 1911
Hydrog. }
Sdg. Mch. _____ Reel _____ Shot/Lead _____ lbs.
Turns 160 Cor'n _____ Depth 160 fms.
Sdg. Cup Lucas Amt. Bot'm Sample 200
Character of Bottom _____

Thermom. { Make _____ Cor'n { Instr. _____
 { No. _____ { Stem. _____

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { 84 Time 9:03 A } Air { 81 1/2
 { 85 Time 10:00 A } { 82

Density: Surf. _____ fms. _____

Wind: Direction W.N.W Force 2.

Baromet. _____ Amt. of Clouds 6 State of Sea _____

Weather bcs.

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____

General Locality Malineau

Position 11 30 W. 05 6 S

Chart used: No. _____ Ed'n _____

Drift: Direction 55 W Distance 1

Depth of Haul Bottom

Apparatus and Rig used _____

Time towing h. 1 m. 50

Remarks:

Deck Officer _____ Recorder _____

SOUNDING WIRE.

FMS.

DREDGING CABLE.

M. Down. Up. M.

M. Down. Up. M.

0

47 50 57 10 100

48 30 56 25 200

49 15 55 35 300

50 10 54 45 400

1 500

8 51 45 8 53 05 569 600

700

800

850 900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

4100

4200

4300

4400

4500

4600

4700

4800

4900

06 30 26 30

10 20 23 15

14 10 19

18 00 16 20

12 30

15 20 09 30

29 20 06 15

33 55 03 00

9 36 50 10 01 00

Dredge } No. _____ Date, June 10, 1900

Sdg. Mch. _____ Reel _____ Shot/Leads _____ lbs.

Turns 809 Cor'n _____ Depth 809 fms.

Sdg. Cup _____ Amt. Bot'm Sample _____

Character of Bottom Mud

Thermom. { Make _____ Cor'n { Instr. _____
 { No. _____ { Stem. _____

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { 86.0 Time 2:18 P. } Air { 84.50
 { _____ Time _____ } { _____

Density: Surf. _____ fms. _____

Wind: Direction SE Force 3-4

Baromet. _____ Amt. of Clouds 1 State of Sea _____

Weather Clear

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____

General Locality Off Cape Cod

Position 41° 12' N - 72° 50' W

Chart used: No. 1144 Ed'n _____

Drift: Direction SE Distance 1.5

Depth of Haul _____

Apparatus and Rig used _____

Time towing _____ h. 20 m.

Remarks: _____

Deck Officer W. R. K. Recorder _____

SOUNDING WIRE.

M. Down. Up. M.

FMS.

DREDGING CABLE.

M. Down. Up. M.

1	05:15	1	2:10	0
			2:10	100
	05:25		2:20	200
			2:30	300
	05:35		2:40	400
			2:50	500
	05:45		3:00	600
			3:10	700
	05:55		3:20	800
			3:30	900
	06:05		3:40	1000
			3:50	1100
	06:15		4:00	1200
			4:10	1300
	06:25		4:20	1400
			4:30	1500
	06:35		4:40	1600
			4:50	1700
	06:45		5:00	1800
			5:10	1900
	06:55		5:20	2000
			5:30	2100
	07:05		5:40	2200
			5:50	2300
	07:15		6:00	2400
			6:10	2500
	07:25		6:20	2600
			6:30	2700
	07:35		6:40	2800
			6:50	2900
	07:45		7:00	3000
			7:10	3100
	07:55		7:20	3200
			7:30	3300
	08:05		7:40	3400
			7:50	3500
	08:15		8:00	3600
			8:10	3700
	08:25		8:20	3800
			8:30	3900
	08:35		8:40	4000
			8:50	4100
	08:45		9:00	4200
			9:10	4300
	08:55		9:20	4400
			9:30	4500
	09:05		9:40	4600
			9:50	4700
	09:15		10:00	4800
			10:10	4900

1	05:15	1	2:10	0
			2:10	100
	05:25		2:20	200
			2:30	300
	05:35		2:40	400
			2:50	500
	05:45		3:00	600
			3:10	700
	05:55		3:20	800
			3:30	900
	06:05		3:40	1000
			3:50	1100
	06:15		4:00	1200
			4:10	1300
	06:25		4:20	1400
			4:30	1500
	06:35		4:40	1600
			4:50	1700
	06:45		5:00	1800
			5:10	1900
	06:55		5:20	2000
			5:30	2100
	07:05		5:40	2200
			5:50	2300
	07:15		6:00	2400
			6:10	2500
	07:25		6:20	2600
			6:30	2700
	07:35		6:40	2800
			6:50	2900
	07:45		7:00	3000
			7:10	3100
	07:55		7:20	3200
			7:30	3300
	08:05		7:40	3400
			7:50	3500
	08:15		8:00	3600
			8:10	3700
	08:25		8:20	3800
			8:30	3900
	08:35		8:40	4000
			8:50	4100
	08:45		9:00	4200
			9:10	4300
	08:55		9:20	4400
			9:30	4500
	09:05		9:40	4600
			9:50	4700
	09:15		10:00	4800
			10:10	4900

Dredge } No. 353 Date, December 2, 1909

Sdg. Mch. Lucas Reel Lucas Shot 60 lbs.

Turns 645 Cor'n — Depth 645 fms.

Sdg. Cup Lucas Amt. Bot'm Sample

Character of Bottom M

Thermom. { Make — Cor'n { Instr. —
No. — Stem. —

Bottom Reading — Cor'd Temp. —

Temp. Surf. { 85° Time 4:30 } Air { 80 1/2°
60° Time 5:06 }

Density: Surf. — fms. —

Wind: Direction Variable Force 0 —

Baromet. 29.2 Amt. of Clouds 9 State of Sea

Weather Bzpp

Direction and Force of Current { Surface
Bottom

Tide —

General Locality

Offshore

Position 1°

Chart used: No. 94 Ed'n

Drift: Direction X E X C Distance 2.0 miles

Depth of Haul bottom

Apparatus and Rig used 12' Squid Net, 1 lb. weight & 1 lb. sinker, 1 lb. sinker.

Time towing h. 2 2 1/3 m.

Remarks:

Deck Officer () Recorder

SOUNDING WIRE.					FMS.	DREDGING CABLE.						
P.M. Down.		Up.	P.M.			P.M. Down.		Up.	P.M.			
4	04	10	4	22	10	0	4	24	40	6	08	30
	05	20		21	10	100		28	40		05	25
	06	10		20	15	200		32	50		02	20
	07	00		19	00	300		36	00		00	10
	07	50		18	25	400		40	05		00	20
	08	40		18	00	500		44	15			
	09	45		16	30	600		46	15		50	30
	10	45		15	30	700		49	30		47	30
	11	50		14	20	800		52	20		44	30
4	12	20	4	13	50	900		55	00		4	
						1000		59	10		38	55
						1100		50	24		36	00
						1200		06	10		32	00
						1250		50	08	5	30	35
						1400						
						1500						
						1600						
						1700						
						1800						
						1900						
						2000						
						2100						
						2200						
						2300						
						2400						
						2500						
						2600						
						2700						
						2800						
						2900						
						3000						
						3100						
						3200						
						3300						
						3400						
						3500						
						3600						
						3700						
						3800						
						3900						
						4000						
						4100						
						4200						
						4300						
						4400						
						4500						
						4600						
						4700						
						4800						
						4900						

134

Landing (Landing 1) (Landing 2)

12.5

Dredge } No. 333 Date, June 5, 1907

Sdg. Mch. _____ Reel _____ Shot/Lead _____ lbs.

Turns _____ Cor'n _____ Depth _____ fms.

Sdg. Cup _____ Amt. Bot'm Sample _____

Character of Bottom _____

Thermom. { Make _____ Cor'n { Instr. _____
 { No. _____ { Stem. _____

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { _____ Time 7:00 { Air { _____
 { 84° { 7:50 { _____

Density: Surf. _____ fms. _____

Wind: Direction West Force 3

Baromet. _____ Amt. of Clouds 8 State of Sea _____

Weather _____

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____

General Locality _____

Position 10° 23' 00" N 127° 44' 11" E

Chart used: No. 2 Ed'n _____

Drift: Direction _____ Distance _____

Depth of Haul _____

Apparatus and Rig used 10' _____

Time towing h. 17 m.

Remarks _____

Deck Officer _____

Recorder _____

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. Down.	Up.	M.		M. Down.	Up.	P. M.
			0			
			20 100	7	13 00	7 15 00
			200	7	14 10	7 16 00
			300			
			400			
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

Dredge } No. 5634 Date, / , 19
Hydrog. }
Sdg. Mch. Lucas Reel Shot/Lead lbs.
Turns 329 Cor'n Depth 329 fms.
Sdg. Cup Lucas Amt. Bot'm Sample No trace.
Character of Bottom

Thermom. { Make Cor'n { Instr.
No. Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { 84° Time 6:36 A } Air { 81°
81° Time 7:11 A } 81°

Density: Surf. fms.

Wind: Direction N.W. Force 2-3

Baromet. 29.76 Amt. of Clouds 9 State of Sea

Weather incy

Direction and Force of Current { Surface
Bottom

Tide

General Locality

Position 54 W.

Chart used: No. P Ed'n

Drift: Direction S S Distance 1

Depth of Haul Bottom

Apparatus and Rig used 12

Time towing h. m.

Remarks:

Deck Officer Recorder

SOUNDING WIRE.

FMS.

DREDGING CABLE.

M. Down. Up. M.

M. Down. Up. M.

6	23	50	6	31	00	0	6	36	00	7	33	30	
	24	50		30	10	100		40	15		30	15	
		50		29	20	200		44	30		27	00	
	26	50		28	25	300		48	25		23	50	
6	27	15	6	27	55	329400		52	20		20	40	
						500		56	40		17	35	
						550600		7	02	00	7	15	30
						700							
						800							
						900							
						1000							
						1100							
						1200							
						1300							
						1400							
						1500							
						1600							
						1700							
						1800							
						1900							
						2000							
						2100							
						2200							
						2300							
						2400							
						2500							
						2600							
						2700							
						2800							
						2900							
						3000							
						3100							
						3200							
						3300							
						3400							
						3500							
						3600							
						3700							
						3800							
						3900							
						4000							
						4100							
						4200							
						4300							
						4400							
						4500							
						4600							
						4700							
						4800							
						4900							

— 3700, 3800, 3900 (8) 12 4 16
3, 2, 1

Dredge } No. 1137 Date, Dec 10, 1911
Hydrog. }

Sdg. Mch. Reel Shot Lead 60 lbs.

Turns Cor'n Depth fms.

Sdg. Cup Amt. Bot'm Sample

Character of Bottom

Thermom. { Make Cor'n { Instr. No. Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { Time Air { Time

Density: Surf. fms.

Wind: Direction Force

Baromet. Amt. of Clouds State of Sea

Weather

Direction and Force of Current { Surface Bottom

Tide

General Locality

Position 13° 30' S - 127° 39' E

Chart used: No. Ed'n

Drift: Direction Distance

Depth of Haul

Apparatus and Rig used

Time towing h. 5 m.

Remarks:

1. ... To ...
2. ...
3. ...
4. ...
5. ...
6. ...

Deck Officer Recorder

SOUNDING WIRE.

M. Down. Up. M.

FMS.

DREDGING CABLE.

M. Down. Up. M.

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

4100

4200

4300

4400

4500

4600

4700

4800

4900

35	10	26	20
43	00	18	30
47	00	15	30
50	40	09	30

138

1212.115

2.5m

3700 3800 3900 4000 4100 4200 4300 4400 4500 4600 4700 4800 4900

Dredge } No. 1 Date, 1902

Sdg. Mch. 1 Reel Shot/Lead lbs.

Turns 1262 Cor'n — Depth 1262 fms.

Sdg. Cup Amt. Bot'm Sample

Character of Bottom gy. M.; fine L.

Thermom. { Make No. Cor'n { Instr. Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { Time 1:45 Air { 83°

Density: Surf. fms.

Wind: Direction Various Force 1-3

Baromet. 29.7 Amt. of Clouds 5 State of Sea

Weather fog

Direction and Force of Current { Surface Bottom

Tide

General Locality

Position 127° 41' 00"

Chart used: No. 942 B A Ed'n

Drift: Direction S x E. Distance 2.5 miles

Depth of Haul bottom

Apparatus and Rig used 12' apparatus

Time towing h. 20 1/2 m.

Remarks:

SOUNDING WIRE.

FMS.

M. Down.	Up.	M.	
12 04 30			0
10 05 30			100
08 06 30			200
06 07 30			300
04 08 30			400
02 09 30			500
00 10 30			600
12 11 30			700
10 12 30			800
08 13 30			900
06 14 30			1000
04 15 30			1100
02 16 30			1200
00 17 30			1300
11 53 05			1400
			1500
			1600
			1700
			1800
			1900
			2000
			2100
			2200
			2300
			2400
			2500
			2600
			2700
			2800
			2900
			3000
			3100
			3200
			3300
			3400
			3500
			3600
			3700
			3800
			3900
			4000
			4100
			4200
			4300
			4400
			4500
			4600
			4700
			4800
			4900

DREDGING CABLE.

M. Down.	Up.	P. M.	
12 05 30			0
10 06 30			100
08 07 30			200
06 08 30			300
04 09 30			400
02 10 30			500
00 11 30			600
12 12 30			700
10 13 30			800
08 14 30			900
06 15 30			1000
04 16 30			1100
02 17 30			1200
00 18 30			1300
11 59 30			1400
			1500
			1600
			1700
			1800
			1900
			2000
			2100
			2200
			2300
			2400
			2500
			2600
			2700
			2800
			2900
			3000
			3100
			3200
			3300
			3400
			3500
			3600
			3700
			3800
			3900
			4000
			4100
			4200
			4300
			4400
			4500
			4600
			4700
			4800
			4900

✓

Dredge } No. 1037 Date, Jan 1, 1907
Hydrog. }
Sdg. Mch. Reel Shot } 6 lbs.
Lead }
Turns 50 Cor'n — Depth 70 fms.
Sdg. Cup Amt. Bot'm Sample 2
Character of Bottom gy M

Thermom. { Make — Cor'n { Instr. —
 { No. — { Stem. —

Bottom Reading — Cor'd Temp. —

Temp. Surf. { 83° Time 8 am } Air { 7°
 { { Time {

Density: Surf. fms. —

Wind: Direction N E Force 2

Baromet. 30.87 Amt. of Clouds 10 State of Sea 2

Weather over

Direction and Force of Current { Surface —
 { Bottom —

Tide —

General Locality 10 mi. S. of

Position 3° 53' 20" S - 126° 48' E

Chart used: No. 942 B Ed'n —

Drift: Direction S 21 W Distance 1.3 m

Depth of Haul 75 fms

Apparatus and Rig used 12' beam trawl

Time towing — h. — m.

Remarks: 15 fms. in

Deck Officer

Recorder

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. Down.	Up.	M.		M. Down.	Up.	M.
1		13 25	0	7	15 00	25
		13 55	100		20 00	25
01	35	14 05	200		23 30	17 50
		20	300			25
		10 25	400			25
04	35	09 50	500		34 30	33 10
05	45	09 00	600		38 05	27 10
7 06	45	7 07 50	700		42 00	25 00
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
P. M. Down.	Up.	M.		M. Down.	Up.	M.
1.26 40			0			
2			100			
1.4 = 40	1	50 198	200			
			300			
			400			
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800	212		
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

✓

Dredge } No. 4 Date, , 19

Sdg. Mch. Reel Shot 6 lbs.

Turns 5-17 Cor'n Depth 5-17 fms.

Sdg. Cup Amt. Bot'm Sample

Character of Bottom

Thermom. { Make Cor'n { Instr. No. Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { 86° Time 2:30 } Air { 84° Time 2:40 }

Density: Surf. fms.

Wind: Direction Various Force 1-2

Baromet. Amt. of Clouds State of Sea

Weather bc

Direction and Force of Current { Surface Bottom

Tide

General Locality W

Position 14° 15' S, 122° 15' W

Chart used: No. 942 B.C. Ed'n

Drift: Direction S 75° E Distance 1.0 mi.

Depth of Haul Bottom

Apparatus and Rig used 12-6

Time towing h. m.

Remarks: Collected

Deck Officer Recorder

SOUNDING WIRE.

P. M. Down. | Up. P. M.

05 30 2

04 30

03 40

02 50

02 00

01 00

FMS.

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

4100

4200

4300

4400

4500

4600

4700

4800

4900

DREDGING CABLE.

P. M. Down. | Up. P. M.

2 07 50 3 22 30

12 00 15 30

16 10 15 00

17 35 11 30

2 36 00 2 56 00

Tape Sounding Wire (10) (17) 15
 2. 2 00

Dredge } No.
Hydrog. }

Date, , 19

Sdg. Mch. Reel Shot/Lead lbs.

Turns Cor'n Depth fms.

Sdg. Cup Amt. Bot'm Sample 30

Character of Bottom

Thermom. { Make Cor'n { Instr.
 { No. { Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { Time { Air {

Density: Surf. fms.

Wind: Direction Variable Force 1-

Baromet. Amt. of Clouds 7 State of Sea

Weather

Direction and Force of Current { Surface
 { Bottom

Tide

General Locality

Position

Chart used: No. Ed'n

Drift: Direction N 36 W Distance 0.8 m.

Depth of Haul Bottom

Apparatus and Rig used

Time towing h. m.

Remarks:

Deck Officer Recorder

SOUNDING WIRE.

M. Down. Up. M.

FMS.

DREDGING CABLE.

M. Down. Up. M.

				0				
05	45	39	20	100	6	58	30	50 30
06	45	38	25	200		03	50	26 20
07	45	37	30	300		07	50	27 25
08	50	36	30	400		11	30	18 50
09	55	35	35	500		15	05	15 35
11	05	34	40	600		18	30	12 00
1				700				
				800				
14	25	31	55	900		28	20	59 25
15	40	31	05	1000		31	30	54 50
16	55	30	20	1100		34	40	50 25
18	05	29	25	1200		37	45	46 00
19	25	28	30	1300		40	50	41 30
20	45	27	40	1400		44	20	36 10
22	05	26	40	1500		47	40	29 55
5-23	15	25	50	151600		50	50	24 50
				1700				
				1800				
				1900				
				2000				
				2100				
				2200				
				2300				
				2400				
				2500				
				2600				
				2700				
				2800				
				2900				
				3000				
				3100				
				3200				
				3300				
				3400				
				3500				
				3600				
				3700				
				3800				
				3900				
				4000				
				4100				
				4200				
				4300				
				4400				
				4500				
				4600				
				4700				
				4800				
				4900				

16 m



Dredge } No. 1410 Date, _____, 19____
Hydrog. }
Sdg. Mch. _____ Reel _____ Shot/Lead _____ lbs.
Turns 16 Cor'n 2 Depth 24 fms.
Sdg. Cup Lucas Amt. Bot'm Sample _____
Character of Bottom S. M. S.
Thermom. { Make _____ Cor'n { Instr. _____
 { No. _____ { Stem. _____
Bottom Reading _____ Cor'd Temp. _____
Temp. Surf. { _____ Time _____ } Air { 84°
 { _____ Time _____ }
Density: Surf. _____ fms. _____
Wind: Direction 2 Force 0
Baromet. 30.0 Amt. of Clouds 7 State of Sea _____
Weather _____
Direction and Force of Current { Surface _____
 { Bottom _____
Tide _____
General Locality Off Cape Cod, 2 mi. S.
Position 42° 15' N. 71° 15' W.
Chart used: No. 1144 Ed'n 1144
Drift: Direction 71° 28' Distance 1.2
Depth of Haul 55
Apparatus and Rig used Lucas
Time towing _____ h. _____ m.
Remarks: _____

SOUNDING WIRE.

M. Down. Up. M.

4-0230-6-0080-

FMS.

DREDGING CABLE.

M. Down. Up. M.

4-0230-6-0080-

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

4100

4200

4300

4400

4500

4600

4700

4800

4900

60

Lobster 1/2 m

Dredge } No. 1 Date, Dec 1, 1911
Hydrog. }

Sdg. Mch. Tanner Reel TN Shot } 35 lbs.
Leads }

Turns _____ Cor'n _____ Depth 39 fms.

Sdg. Cup _____ Amt. Bot'm Sample Trace

Character of Bottom S. & G. M. S.

Thermom. { Make _____ Cor'n { Instr. _____
 { No. _____ { Stem. _____

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { Time _____ } Air { Time _____

Density: Surf. _____ fms. _____

Wind: Direction Variable Force 1-2

Baromet. 29.90 Amt. of Clouds 6 State of Sea S

Weather Ray

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____

General Locality _____

Position Lat. 41° 10' N. Long. 71° 10' W.

Chart used: No. 3470 BN Ed'n _____

Drift: Direction S 81 W Distance 0.6

Depth of Haul Bottom

Apparatus and Rig used 12' A
to 1 tail and 1 gh

Time towing h. 1 m. _____

Remarks: _____

Deck Officer M. H. 2nd Recorder H. 2nd

SOUNDING WIRE.

FMS.

DREDGING CABLE.

M. DOWN.

UP.

M.

M. DOWN.

UP.

M.

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

4100

4200

4300

4400

4500

4600

4700

4800

4900

Dredge } No. _____ Date, _____, 19____
Hydrog. }
Sdg. Mch. _____ Reel T A Shot Lead _____ lbs.
Turns _____ Cor'n _____ Depth 77 fms.
Sdg. Cup _____ Amt. Bot'm Sample _____
Character of Bottom _____

Thermom. { Make _____ Cor'n { Instr. _____
 { No. _____ { Stem. _____

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { 85° Time 11:15 A } Air { 84°
 { 0 ~ Time 11:15 P M } { _____

Density: Surf. _____ fms. _____

Wind: Direction Variable Force 1-2

Baromet. 30.7 Amt. of Clouds 6 State of Sea _____

Weather _____

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____

General Locality _____

Position _____

Chart used: No. _____ Ed'n _____

Drift: Direction 77 Distance _____

Depth of Haul _____

Apparatus and Rig used _____

Time towing _____ h. _____ m.

Remarks: _____

Deck Officer _____ Recorder _____

SOUNDING WIRE.

FMS.

DREDGING CABLE.

M. Down. Up. M.

M. Down. Up. M.

10	50	15	10	52	20
10	50	50	10	51	10

38 100-

10	56	00	11	23	00
11	00	30	11	18	00

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

4100

4200

4300

4400

4500

4600

4700

4800

4900

Dredge } No. 253 Date, , 19
Hydrog. }
Sdg. Mch. Reel Shot
Lead lbs.
Turns 715 Cor'n Depth 715 fms.
Sdg. Cup Amt. Bot'm Sample 1 1/2 0.
Character of Bottom on M

Thermom. { Make Cor'n { Instr.
No. Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { 84 Time 4:00 } Air { 83.5
84 Time 4:26 }

Density: Surf. fms.

Wind: Direction Force

Baromet. Amt. of Clouds State of Sea

Weather Bczp

Direction and Force of Current { Surface
Bottom

Tide

General Locality Port of Spain

Position 7° 45' N - 121° 45' W

Chart used: No. 242 Ed'n

Drift: Direction 54 Distance 0.7

Depth of Haul Bottom

Apparatus and Rig used 12' beam trawl

Time towing h. 1 m.

Remarks:

Deck Officer Recorder

SOUNDING WIRE.

M. Down.	Up.	M.
2	12	10
3	11	10
4	10	10
5	9	10
6	8	10
7	7	10
8	6	10
9	5	10
10	4	10
11	3	10
12	2	10
13	1	10
14	0	10
15	0	10
16	0	10
17	0	10
18	0	10
19	0	10
20	0	10
21	0	10
22	0	10
23	0	10
24	0	10
25	0	10
26	0	10
27	0	10
28	0	10
29	0	10
30	0	10
31	0	10
32	0	10
33	0	10
34	0	10
35	0	10
36	0	10
37	0	10
38	0	10
39	0	10
40	0	10
41	0	10
42	0	10
43	0	10
44	0	10
45	0	10
46	0	10
47	0	10
48	0	10
49	0	10
50	0	10
51	0	10
52	0	10
53	0	10
54	0	10
55	0	10
56	0	10
57	0	10
58	0	10
59	0	10
60	0	10
61	0	10
62	0	10
63	0	10
64	0	10
65	0	10
66	0	10
67	0	10
68	0	10
69	0	10
70	0	10
71	0	10
72	0	10
73	0	10
74	0	10
75	0	10
76	0	10
77	0	10
78	0	10
79	0	10
80	0	10
81	0	10
82	0	10
83	0	10
84	0	10
85	0	10
86	0	10
87	0	10
88	0	10
89	0	10
90	0	10
91	0	10
92	0	10
93	0	10
94	0	10
95	0	10
96	0	10
97	0	10
98	0	10
99	0	10
100	0	10

FMS.

DREDGING CABLE.

M. Down.	Up.	M.
2	12	10
3	11	10
4	10	10
5	9	10
6	8	10
7	7	10
8	6	10
9	5	10
10	4	10
11	3	10
12	2	10
13	1	10
14	0	10
15	0	10
16	0	10
17	0	10
18	0	10
19	0	10
20	0	10
21	0	10
22	0	10
23	0	10
24	0	10
25	0	10
26	0	10
27	0	10
28	0	10
29	0	10
30	0	10
31	0	10
32	0	10
33	0	10
34	0	10
35	0	10
36	0	10
37	0	10
38	0	10
39	0	10
40	0	10
41	0	10
42	0	10
43	0	10
44	0	10
45	0	10
46	0	10
47	0	10
48	0	10
49	0	10
50	0	10
51	0	10
52	0	10
53	0	10
54	0	10
55	0	10
56	0	10
57	0	10
58	0	10
59	0	10
60	0	10
61	0	10
62	0	10
63	0	10
64	0	10
65	0	10
66	0	10
67	0	10
68	0	10
69	0	10
70	0	10
71	0	10
72	0	10
73	0	10
74	0	10
75	0	10
76	0	10
77	0	10
78	0	10
79	0	10
80	0	10
81	0	10
82	0	10
83	0	10
84	0	10
85	0	10
86	0	10
87	0	10
88	0	10
89	0	10
90	0	10
91	0	10
92	0	10
93	0	10
94	0	10
95	0	10
96	0	10
97	0	10
98	0	10
99	0	10
100	0	10

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

4100

4200

4300

4400

4500

4600

4700

4800

4900

Dredge } No. 576 Date, Aug 1, 1901

Sdg. Mch. Reel Shot/Lead lbs.

Turns Cor'n Depth 22 fms.

Sdg. Cup Amt. Bot'm Sample

Character of Bottom

Thermom. { Make Cor'n { Instr. No. Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { 50° Time 8:22 } Air { 60° Time

Density: Surf. fms.

Wind: Direction Force 0

Baromet. Amt. of Clouds / State of Sea

Weather

Direction and Force of Current { Surface Bottom

Tide

General Locality

Position 37° 24' N. 121° 24' W.

Chart used: No. 3470 B. & A. Ed'n.

Drift: Direction Distance 4 mi.

Depth of Haul bottom

Apparatus and Rig used

10 fms.

Time towing h. 1 m.

Remarks:

Deck Officer Recorder

SOUNDING WIRE.

FMS.

DREDGING CABLE.

M. Down. Up. M.

M. Down. Up. M.

0

50 ~~100~~

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

4100

4200

4300

4400

4500

4600

4700

4800

4900

58

2 10 00 00
 8 02 00

2 10 00 00
 8 02 00

SOUNDING WIRE.

M. Down. | Up. | M.

FMS.

DREDGING CABLE.

M. Down. | Up. | M.

0
100
200
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
1600
1700
1800
1900
2000
2100
2200
2300
2400
2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000
4100
4200
4300
4400
4500
4600
4700
4800
4900

Dredge } No. _____ Date, _____, 19____
Hydrog. }
Sdg. Mch. *Tanner* Reel *Tanner* Shot *60* lbs.
Turns *456* Cor'n _____ Depth *456* fms.
Sdg. Cup _____ Amt. Bot'm Sample _____
Character of Bottom *gn. M.*

Thermom. { Make _____ Cor'n { Instr. _____
 { No. _____ { Stem. _____

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { *83°* Time *11:45 A* } Air { *79°*
 { *83°* Time *12:30 P* } { *80°*

Density: Surf. _____ fms. _____

Wind: Direction *Variable* Force *2-1*

Baromet. *29.50* Amt. of Clouds *7* State of Sea *2*

Weather *B.*

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____

General Locality _____

Position *Lat. 5° 31' 30" S Long. 122° 22' 40" W*

Chart used: No. *3816* Ed'n _____

Drift: Direction _____ Distance _____

Depth of Haul *Bottom*

Apparatus and Rig used *As is*

Time towing _____ h. *20* m.

Remarks _____

Deck Officer _____

Recorder _____

SOUNDING WIRE.

<u>Q</u> M. Down.	Up.	<u>Q</u> M.
11 32 05	11 41 00	
33 00	45 05	
33 55	39 20	
34 50	38 40	
35 45	37 55	
11 36 20	11 37 20.45	

FMS.

DREDGING CABLE.

M. Down.	Up.	<u>P</u> M.
----------	-----	-------------

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

4100

4200

4300

4400

4500

4600

4700

4800

4900

7.5 m

Dredge } No. _____ Date, _____, 19____
 Hydrog. }
 Sdg. Mch. _____ Reel _____ Shot & Lead _____ lbs.
 Turns _____ Cor'n _____ Depth 519 fms.
 Sdg. Cup Lucas Amt. Bot'm Sample Plen
 Character of Bottom Gn M
 Thermom. { Make _____ Cor'n { Instr. _____
 { No. _____ { Stem. _____
 Bottom Reading _____ Cor'd Temp. _____
 Temp. Surf. { 83° Time 2:44 1/2 } Air { 83°
 { _____ Time _____ } { _____
 Density: Surf. _____ fms. _____
 Wind: Direction W S. W Force 3. -
 Baromet. 30.1 Amt. of Clouds 7 State of Sea S
 Weather hazy
 Direction and Force of Current { Surface _____
 { Bottom _____
 Tide _____

General Locality Boston S.
 Position : at. 5° 34' 00" S 5
 Chart used: No. 3616 Ed'n 1
 Drift: Direction S. 40 E Distance 1.0
 Depth of Haul Bottom
 Apparatus and Rig used Up before

Time towing _____ h. 20 m.

Remarks:

SOUNDING WIRE.

P M. Down. | Up. *P* M.

FMS.

DREDGING CABLE.

P M. Down. | Up. *P* M.

1200 | 1200
1210 | 1210
1220 | 1220
1230 | 1230
1240 | 1240
1250 | 1250
1300 | 1300
1310 | 1310
1320 | 1320
1330 | 1330
1340 | 1340
1350 | 1350
1400 | 1400
1410 | 1410
1420 | 1420
1430 | 1430
1440 | 1440
1450 | 1450
1500 | 1500
1510 | 1510
1520 | 1520
1530 | 1530
1540 | 1540
1550 | 1550
1600 | 1600
1610 | 1610
1620 | 1620
1630 | 1630
1640 | 1640
1650 | 1650
1700 | 1700
1710 | 1710
1720 | 1720
1730 | 1730
1740 | 1740
1750 | 1750
1800 | 1800
1810 | 1810
1820 | 1820
1830 | 1830
1840 | 1840
1850 | 1850
1900 | 1900
1910 | 1910
1920 | 1920
1930 | 1930
1940 | 1940
1950 | 1950
2000 | 2000
2010 | 2010
2020 | 2020
2030 | 2030
2040 | 2040
2050 | 2050
2100 | 2100
2110 | 2110
2120 | 2120
2130 | 2130
2140 | 2140
2150 | 2150
2200 | 2200
2210 | 2210
2220 | 2220
2230 | 2230
2240 | 2240
2250 | 2250
2300 | 2300
2310 | 2310
2320 | 2320
2330 | 2330
2340 | 2340
2350 | 2350
2400 | 2400
2410 | 2410
2420 | 2420
2430 | 2430
2440 | 2440
2450 | 2450
2500 | 2500
2510 | 2510
2520 | 2520
2530 | 2530
2540 | 2540
2550 | 2550
2600 | 2600
2610 | 2610
2620 | 2620
2630 | 2630
2640 | 2640
2650 | 2650
2700 | 2700
2710 | 2710
2720 | 2720
2730 | 2730
2740 | 2740
2750 | 2750
2800 | 2800
2810 | 2810
2820 | 2820
2830 | 2830
2840 | 2840
2850 | 2850
2900 | 2900
2910 | 2910
2920 | 2920
2930 | 2930
2940 | 2940
2950 | 2950
3000 | 3000
3010 | 3010
3020 | 3020
3030 | 3030
3040 | 3040
3050 | 3050
3100 | 3100
3110 | 3110
3120 | 3120
3130 | 3130
3140 | 3140
3150 | 3150
3200 | 3200
3210 | 3210
3220 | 3220
3230 | 3230
3240 | 3240
3250 | 3250
3300 | 3300
3310 | 3310
3320 | 3320
3330 | 3330
3340 | 3340
3350 | 3350
3400 | 3400
3410 | 3410
3420 | 3420
3430 | 3430
3440 | 3440
3450 | 3450
3500 | 3500
3510 | 3510
3520 | 3520
3530 | 3530
3540 | 3540
3550 | 3550
3600 | 3600
3610 | 3610
3620 | 3620
3630 | 3630
3640 | 3640
3650 | 3650
3700 | 3700
3710 | 3710
3720 | 3720
3730 | 3730
3740 | 3740
3750 | 3750
3800 | 3800
3810 | 3810
3820 | 3820
3830 | 3830
3840 | 3840
3850 | 3850
3900 | 3900
3910 | 3910
3920 | 3920
3930 | 3930
3940 | 3940
3950 | 3950
4000 | 4000
4010 | 4010
4020 | 4020
4030 | 4030
4040 | 4040
4050 | 4050
4100 | 4100
4110 | 4110
4120 | 4120
4130 | 4130
4140 | 4140
4150 | 4150
4200 | 4200
4210 | 4210
4220 | 4220
4230 | 4230
4240 | 4240
4250 | 4250
4300 | 4300
4310 | 4310
4320 | 4320
4330 | 4330
4340 | 4340
4350 | 4350
4400 | 4400
4410 | 4410
4420 | 4420
4430 | 4430
4440 | 4440
4450 | 4450
4500 | 4500
4510 | 4510
4520 | 4520
4530 | 4530
4540 | 4540
4550 | 4550
4600 | 4600
4610 | 4610
4620 | 4620
4630 | 4630
4640 | 4640
4650 | 4650
4700 | 4700
4710 | 4710
4720 | 4720
4730 | 4730
4740 | 4740
4750 | 4750
4800 | 4800
4810 | 4810
4820 | 4820
4830 | 4830
4840 | 4840
4850 | 4850
4900 | 4900
4910 | 4910
4920 | 4920
4930 | 4930
4940 | 4940
4950 | 4950

2 | 07 | 30 | 2 | 08 | 4

61

North 115

115

Dredge } No. _____ Date, _____, 19__

Sdg. Mch. _____ Reel _____ Shot & Lead _____ lbs.

Turns _____ Cor'n _____ Depth _____ fms.

Sdg. Cup _____ Amt. Bot'm Sample _____

Character of Bottom _____

Thermom. { Make N3 Cor'n { Instr. - 8
 { No. 124 { Stem. _____

Bottom Reading 40° Cor'd Temp. 39.2

Temp. Surf. { 82° Time 4.30 p } Air { 85.3°
 { _____ Time 4.50 p } { _____

Density: Surf. _____ fms. _____

Wind: Direction W Force 2

Baromet. _____ Amt. of Clouds L State of Sea S

Weather fog

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____

General Locality off Cape Cod

Position 42° 15' N 70° 15' W

Chart used: No. 1136 Ed'n _____

Drift: Direction S. 50° E Distance 2.5

Depth of Haul Bottom

Apparatus and Rig used As before

Time towing _____ h. _____ m.

Remarks: _____

Deck Officer _____ Recorder _____

SOUNDING WIRE.

M. Down. Up. M.

FMS.

DREDGING CABLE.

M. Down. Up. M.

1 1/2	1 1/2	0	2 1/2	2 1/2
1 1/2	1 1/2	100	2 1/2	2 1/2
1 1/2	1 1/2	200	2 1/2	2 1/2
1 1/2	1 1/2	300	2 1/2	2 1/2
1 1/2	1 1/2	400	2 1/2	2 1/2
1 1/2	1 1/2	500	2 1/2	2 1/2
1 1/2	1 1/2	600	2 1/2	2 1/2
1 1/2	1 1/2	700	2 1/2	2 1/2
1 1/2	1 1/2	800	2 1/2	2 1/2
1 1/2	1 1/2	900	2 1/2	2 1/2
1 1/2	1 1/2	1000	2 1/2	2 1/2
1 1/2	1 1/2	1100	2 1/2	2 1/2
1 1/2	1 1/2	1200	2 1/2	2 1/2
1 1/2	1 1/2	1300	2 1/2	2 1/2
1 1/2	1 1/2	1400	2 1/2	2 1/2
1 1/2	1 1/2	1500	2 1/2	2 1/2
1 1/2	1 1/2	1600	2 1/2	2 1/2
1 1/2	1 1/2	1700	2 1/2	2 1/2
1 1/2	1 1/2	1800	2 1/2	2 1/2
1 1/2	1 1/2	1900	2 1/2	2 1/2
1 1/2	1 1/2	2000	2 1/2	2 1/2
1 1/2	1 1/2	2100	2 1/2	2 1/2
1 1/2	1 1/2	2200	2 1/2	2 1/2
1 1/2	1 1/2	2300	2 1/2	2 1/2
1 1/2	1 1/2	2400	2 1/2	2 1/2
1 1/2	1 1/2	2500	2 1/2	2 1/2
1 1/2	1 1/2	2600	2 1/2	2 1/2
1 1/2	1 1/2	2700	2 1/2	2 1/2
1 1/2	1 1/2	2800	2 1/2	2 1/2
1 1/2	1 1/2	2900	2 1/2	2 1/2
1 1/2	1 1/2	3000	2 1/2	2 1/2
1 1/2	1 1/2	3100	2 1/2	2 1/2
1 1/2	1 1/2	3200	2 1/2	2 1/2
1 1/2	1 1/2	3300	2 1/2	2 1/2
1 1/2	1 1/2	3400	2 1/2	2 1/2
1 1/2	1 1/2	3500	2 1/2	2 1/2
1 1/2	1 1/2	3600	2 1/2	2 1/2
1 1/2	1 1/2	3700	2 1/2	2 1/2
1 1/2	1 1/2	3800	2 1/2	2 1/2
1 1/2	1 1/2	3900	2 1/2	2 1/2
1 1/2	1 1/2	4000	2 1/2	2 1/2
1 1/2	1 1/2	4100	2 1/2	2 1/2
1 1/2	1 1/2	4200	2 1/2	2 1/2
1 1/2	1 1/2	4300	2 1/2	2 1/2
1 1/2	1 1/2	4400	2 1/2	2 1/2
1 1/2	1 1/2	4500	2 1/2	2 1/2
1 1/2	1 1/2	4600	2 1/2	2 1/2
1 1/2	1 1/2	4700	2 1/2	2 1/2
1 1/2	1 1/2	4800	2 1/2	2 1/2
1 1/2	1 1/2	4900	2 1/2	2 1/2

Dredge } No. 1 Date, 1900

Sdg. Mch. Reel Shot/Lead lbs.

Turns Cor'n Depth fms.

Sdg. Cup Amt. Bot'm Sample

Character of Bottom

Thermom. { Make Cor'n { Instr. No. Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { 85 Time 7:25/4 } Air { 83 830 Time 7:45/3 }

Density: Surf. fms.

Wind: Direction West Force 3

Baromet. 29 Amt. of Clouds 5 State of Sea

Weather Clear

Direction and Force of Current { Surface Bottom

Tide

General Locality

Position

Chart used: No. 3616 B. Ed'n

Drift: Direction Distance

Depth of Haul

Apparatus and Rig used

Cone

Time towing h. 2 m.

Remarks:

Deck Officer Recorder

SOUNDING WIRE.

M. Down. Up. M.

FMS.

DREDGING CABLE.

M. Down. Up. M.

0
100
200
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
1600
1700
1800
1900
2000
2100
2200
2300
2400
2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000
4100
4200
4300
4400
4500
4600
4700
4800
4900

7 22 57 40
7 22 00 7 44 00

63

7 22 00 7 44 00

22 0

Dredge } No. 11 Date, July 1, 1907

Sdg. Mch. Lucas Reel Lucas Shot } 60 lbs.
Lead }

Turns 540 Cor'n _____ Depth 540 fms.

Sdg. Cup _____ Amt. Bot'm Sample _____

Character of Bottom gy. M.

Thermom. { Make T. B. Cor'n { Instr. - 8
 { No. 98244 { Stem. _____

Bottom Reading 540 Cor'd Temp. _____

Temp. Surf. { 84 Time 8:45 } Air { 86
 { 84 Time 9:30 } Air { 85

Density: Surf. _____ fms. _____

Wind: Direction Calm Force 0

Baromet. 29.5 Amt. of Clouds 9 State of Sea 1

Weather light

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____

General Locality _____

Position _____

Chart used: No. 3616 RA Ed'n

Drift: Direction 245 Distance 7

Depth of Haul _____

Apparatus and Rig used _____

Time towing h. 1 m.

Remarks: _____

Deck Officer _____ Recorder _____

SOUNDING WIRE.				FMS.	DREDGING CABLE.			
Q M. Down.		Up.	Q M.		Q M. Down.		Up.	Q M.
				0				
37	30		40 00	100	46	45	35	35
				200				
32	35		38 35	300	35	00	35	35
32	40		37 50	400	56	15	47	40
34	25		37 00	500	59	00	43	35
				600				
				700				
				800				
				900				
				1000				
				1100				
				1200				
				1300				
				1400				
				1500				
				1600				
				1700				
				1800				
				1900				
				2000				
				2100				
				2200				
				2300				
				2400				
				2500				
				2600				
				2700				
				2800				
				2900				
				3000				
				3100				
				3200				
				3300				
				3400				
				3500				
				3600				
				3700				
				3800				
				3900				
				4000				
				4100				
				4200				
				4300				
				4400				
				4500				
				4600				
				4700				
				4800				
				4900				

Dredge } No. 5651 Date, Dec 19

Sdg. Mch. Lucas Reel Shot lbs.

Turns Cor'n Depth fms.

Sdg. Cup Lucas Amt. Bot'm Sample None

Character of Bottom fine sand

Thermom. { Make No. 71217 Cor'n { Instr. Stem.

Bottom Reading 39.5 Cor'd Temp. 38.7

Temp. Surf. { 84° Time 2:27 P. { 84° Air {

Density: Surf. fms.

Wind: Direction n.n.w Force 1-2

Baromet. 29.83 Amt. of Clouds .8 State of Sea S

Weather

Direction and Force of Current { Surface Bottom

Tide

General Locality

Position

Chart used: No. 3616 Ed'n V

Drift: Direction n.n.w Distance 2.9

Depth of Haul Bottom

Apparatus and Rig used

Time towing h. m.

Remarks: 10 min. towed

Deck Officer Recorder

SOUNDING WIRE.

P. M. Down.			Up.	P. M.
1	33	10	1	47.00
	34	00		46.00
	35	00		45.20
	36	00		44.30
	36	55		43.40
	37	55		42.45
	38	50		41.50
1	39	50	1	40.50

FMS.

DREDGING CABLE.

/ M. Down. Up. / M.

0	/	1	2	3	4
100					
200	2	1	2	3	4
300					
400					
500					
600					
700					
800					
900					
1000	1	2	3	4	5
1100					
1200					
1300					
1400					
1500					
1600					
1700					
1800					
1900					
2000					
2100					
2200					
2300					
2400					
2500					
2600					
2700					
2800					
2900					
3000					
3100					
3200					
3300					
3400					
3500					
3600					
3700					
3800					
3900					
4000					
4100					
4200					
4300					
4400					
4500					
4600					
4700					
4800					
4900					

67

11—1025

SOUNDING WIRE.

M. Down.	Up.	M.
6	5	5
10	10	10
15	15	15
20	20	20
25	25	25
30	30	30
35	35	35
40	40	40
45	45	45
50	50	50
55	55	55
60	60	60
65	65	65
70	70	70
75	75	75
80	80	80
85	85	85
90	90	90
95	95	95
100	100	100
105	105	105
110	110	110
115	115	115
120	120	120
125	125	125
130	130	130
135	135	135
140	140	140
145	145	145
150	150	150
155	155	155
160	160	160
165	165	165
170	170	170
175	175	175
180	180	180
185	185	185
190	190	190
195	195	195
200	200	200
205	205	205
210	210	210
215	215	215
220	220	220
225	225	225
230	230	230
235	235	235
240	240	240
245	245	245
250	250	250
255	255	255
260	260	260
265	265	265
270	270	270
275	275	275
280	280	280
285	285	285
290	290	290
295	295	295
300	300	300
305	305	305
310	310	310
315	315	315
320	320	320
325	325	325
330	330	330
335	335	335
340	340	340
345	345	345
350	350	350
355	355	355
360	360	360
365	365	365
370	370	370
375	375	375
380	380	380
385	385	385
390	390	390
395	395	395
400	400	400
405	405	405
410	410	410
415	415	415
420	420	420
425	425	425
430	430	430
435	435	435
440	440	440
445	445	445
450	450	450
455	455	455
460	460	460
465	465	465
470	470	470
475	475	475
480	480	480
485	485	485
490	490	490
495	495	495
500	500	500

FMS.

DREDGING CABLE.

M. Down.	Up.	M.
4	5	00
5	6	13
6	7	26
7	8	39
8	9	52
9	10	05
10	11	18
11	12	31
12	13	44
13	14	57
14	15	10
15	16	23
16	17	36
17	18	49
18	19	62
19	20	75
20	21	88
21	22	01
22	23	14
23	24	27
24	25	40
25	26	53
26	27	06
27	28	19
28	29	32
29	30	45
30	31	58
31	32	71
32	33	84
33	34	97
34	35	10
35	36	23
36	37	36
37	38	49
38	39	62
39	40	75
40	41	88
41	42	01
42	43	14
43	44	27
44	45	40
45	46	53
46	47	66
47	48	79
48	49	92
49	50	05
50	51	18
51	52	31
52	53	44
53	54	57
54	55	70
55	56	83
56	57	96
57	58	09
58	59	22
59	60	35
60	61	48
61	62	61
62	63	74
63	64	87
64	65	00
65	66	13
66	67	26
67	68	39
68	69	52
69	70	65
70	71	78
71	72	91
72	73	04
73	74	17
74	75	30
75	76	43
76	77	56
77	78	69
78	79	82
79	80	95
80	81	08
81	82	21
82	83	34
83	84	47
84	85	60
85	86	73
86	87	86
87	88	99
88	89	12
89	90	25
90	91	38
91	92	51
92	93	64
93	94	77
94	95	90
95	96	03
96	97	16
97	98	29
98	99	42
99	100	55

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

4100

4200

4300

4400

4500

4600

4700

4800

4900

Dredge } No. 253 Date, June 17, 1902

Sdg. Mch. _____ Reel _____ Shot } _____ lbs.
Lead }

Turns _____ Cor'n _____ Depth _____ fms.

Sdg. Cup _____ Amt. Bot'm Sample _____

Character of Bottom _____

Thermom. { Make _____ Cor'n { Instr. _____
 { No. _____ { Stem. _____

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { 82° Time 7:30 p } Air { 81°
 { 78° { { 78°
 Time _____

Density: Surf. _____ fms. _____

Wind: Direction West Force 2

Baromet. 30.5 Amt. of Clouds 9 State of Sea S

Weather Fair

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____

General Locality Off Cape Cod

Position 42° 15' N. 71° 15' W.

Chart used: No. 1144 Ed'n _____

Drift: Direction _____ Distance _____

Depth of Haul Surface

Apparatus and Rig used Beam trawl

Time towing _____ h. _____ m.

Remarks: 10 min. towed out. No haul.

Deck Officer J. H. Smith Recorder J. H. Smith

SOUNDING WIRE.

M. Down. Up. M.

FMS.

DREDGING CABLE.

M. Down. Up. M.

0
10 100
200
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
1600
1700
1800
1900
2000
2100
2200
2300
2400
2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000
4100
4200
4300
4400
4500
4600
4700
4800
4900

712200 712300
712300 714000

69

4

4

* 11-1023

SOUNDING WIRE.

FMS.

DREDGING CABLE.

A.M. DOWN. UP. A.M.

A.M. DOWN. UP. A.M.

5-33 46-5-49 30	0	5-55 40 7 58 10
34 30 48 30	100	6 01 15- 54 40
35 25 47 40	200	06 20 51 30
36 15 46 55	300	10 35 48 25
37 15 46 10	400	15 00 45 10
38 05 45 20	500	18 20 41 50
39 00 44 30	600	21 50 38 10
40 00 43 30	700	25 10 34 25
41 10 42 25	800	28 35 30 45
5-41 15-5-42 15- 805 900	900	32 10 27 15
	1000	40 10 23 20
	1100	44 50 19 40
	1200	6 47 15- 7 15 15
	1300	
	1400	
	1500	
	1600	
	1700	
	1800	
	1900	
	2000	
	2100	
	2200	
	2300	
	2400	
	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
	3400	
	3500	
	3600	
	3700	
	3800	
	3900	
	4000	
	4100	
	4200	
	4300	
	4400	
	4500	
	4600	
	4700	
	4800	
	4900	

70

Tg Tabako

N 17 E

21.5

$$\begin{array}{r}
 12.61.55 \\
 11.54.25 \\
 \hline
 7.301.2 \\
 6. \\
 \hline
 1.3 \\
 1.2 \\
 \hline
 1.0
 \end{array}$$



$$\begin{array}{r}
 11.54.25 \\
 3.32 \\
 \hline
 57.55
 \end{array}$$



25.00
06.40

17.20

52-00
29-45

22-45

1.
MAY FINE

175	40
170	136
165	132
160	129
155	125
150	121
145	118
140	114
135	110
130	106
125	103
120	99
115	95
110	91
105	87
100	83
95	79
90	75
85	71
80	67
75	63
70	59
65	55
60	51
55	47
50	43
45	39
40	35
35	31
30	27
25	23
20	19
15	14
10	9
5	5